This materials is a first to an unauthorized person in the materials by law.

BAR:LJD

#2

Folder

Box

R - 404014

BEST COPY AVAILABLE

October 2, 1952

469

Dr. G. Failla Golumbia University Radiological Research Laboratory 630 West 168th Street New York 32, New York

OPENNET ENTRY

Authorized for Public Release

By By G. Description Deter.

Deter.

Deter.

Deter.

Not Authorized for Public Release

By:

Company Company Company

Deter.

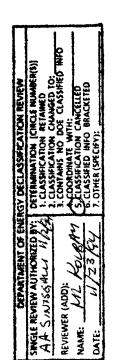
Deer Dr. Faillas

This letter will confirm our conversations regarding logistic support for your group at Mevada, during the Spahot-Enothole Test, and it will provide you with more recent data regarding dates, schedules, etc.

Before we start into details, I think it's proper to reemphasize for the record the general points covered, namely
that you do not want to participate "full scale" in this program unless there is a reasonable chance that you can obtain
good data; therefore, you would like to receive the right to
reduce your participation after more complete information is
available on the test plane, but that for planning purposes,
it will be assumed that your group will participate "full scale".

As for the logistic support, we understand that you will need the following:

- (1) Four people in Nevada for a two-week period (assuming that the shelter is to be tested for one shot only).
- (2) A small laboratory equipped with 110 power and about 200 ft.² floor space.
- (3) Transportation from Gamp 3 to target area, preferably a weapons carrier, station wagon, or jesp.
- (4) Last minute access to the shalter (redegnizing that this may not be possible).
- (5) A wire down the center of the shelter to smahor the chambers.



US DOE ARCHIVES 326 U.S. ATOMIC ENERGY

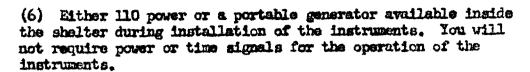
COMMISSION

DOE HISTORIAN

1132

Collection

DOS ARCHIVES



(7) You will not have any requirements for labor crews.

In addition to the above, I want to bring you up to date on the latest plans of the test organization, and to ascertain what effect these changes may have on your operations.

On September 29, the subcommittee (consisting of George Lercy, H. Andrews, and Lt. Gemir. Gronekite) of the Rio. Med. Test Screening Gemmittee met here in Washington to consider in detail the proposed Biological experiments. At this same meeting, Bob Corsbie cutlined the plans for the shelter test, etc.

Present planning seems to indicate that it would be desirable to test the shelter in Yucca Flat completely independent of the Military Effects Program. It would probably be subjected to at least two tower shots. The first shot to be on or about March 1, designed primarily to give the blast pressures necessary to test the structural characteristics of the shelter. The second tower shot would probably give a higher neutron yield and gamma ray dose. Probably the neutron doses (as measured by sulpher) would be of the order of 109 to 1010 N/cm² inside the shelter. These neutron levels would be the minimum range that could be detected by the mice.

Dr. Leroy pointed out that the neutron levels we quote are based on Ed-gold and sulpher measurements. The Ed-gold technique does not measure much above .2 ev, and the sulpher technique does not measure anything below 3 MEV. Therefore, there is a gap between 2 ev. and 3 MEV that is not being measured. There is evidence from the Greenhouse work to indicate that there is biological damage which is believed to be from the neutron in the range. We have requested that copies of the Greenhouse report and the Shelter Test report be sent to you, and they abould be there within the next few days.

As you can see from this letter, things are beginning to shape up to a point whereby we should be able to give you the distance from the bomb, expected radiation doses, etc. within the next few weeks.



Dr. G. Failla

We have discussed the question of repeating Hill Chambers' experiments, and since AFSWF has not entirely sint the door on this program, we don't believe there is much we can do until the Military makes up their minds.

As soon as we get more definite information regarding shelter location, etc., we will pass it on to you.

Very truly yours,

L. Joe Beal Redistion Instruments Branch Division of Miology and Medicine

CC: R. L. Corsbie Dr. Bugher

